**Homework 84-A Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Find Arc Measures Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Per \_\_\_\_**

**Failure to show all work or write in complete sentences will result in a LaSalle.**

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| 1) Write a definition of a tangent line.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 2) In the circle below, draw a radius and a tangent line. |
| 3) Use the diagram below to answer questions a – f.     1. Lines PA and PB each touch circle Q at exactly one point, therefore they are both \_\_\_\_\_\_\_\_\_\_\_\_\_\_ line. 2. The measure of PAQ = \_\_\_\_\_\_\_\_. Mark this in your figure. 3. The measure of PBQ = \_\_\_\_\_\_\_\_. Mark this in your figure. 4. The sum of the interior angles of a quadrilateral is \_\_\_\_\_\_\_\_. 5. The measure of AQB = \_\_\_\_\_\_\_\_. 6. The value of x = \_\_\_\_\_\_\_\_. | 4) PA and PB are tangent to circle Q. Find y. |
| 5) PA and PB are tangent to circle Q. Find z. |